CLAIMS

We claim:

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1. In a method for controlling the foaming of a waterborne composition or an industrial process by the incorporation of a foam controlling agent, the improvement which comprises utilizing as the foam controlling agent a compound of the formula:

$$\begin{array}{c|c}
R \\
N + (CH_2)_n \\
R
\end{array}$$

$$\begin{array}{c|c}
CH_2 \\
M
\end{array}$$

$$\begin{array}{c}
O - R' \\
OH
\end{array}$$

where n and m are 2 or 3,

x is 1-6,

$$R = H \text{ or } O-R'$$
OH, and

10 R' is a C4 to C22 alkyl group,

the compound generating an initial foam height at least 30% less than a 0.1 wt% aqueous solution of dioctyl sodium sulfosuccinate (DOSS) when added at 0.1 wt% to the DOSS solution.

- 2. The method of Claim 1 in which R' is C4-C14 alkyl.
 - 3. The method of Claim 1 in which x is 1 or 2.
 - 4. The method of Claim 1 in which n and m are 2.

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5. The method of Claim 1 in which the compound generates an initial foam height at least 50% less.

- 6. The method of Claim 1 in which R' is C4 alkyl, x is 1, n and m are 2 and the degree of adduction is 2, 3 or 4.
- 7. The method of Claim 1 in which R' is C4 alkyl, x is 2, n and m are 2 and the degree of adduction is 2, 3 or 4.
 - 8. The method of Claim 1 in which R' is C8 alkyl, x is 1, n and m are 2 and the degree of adduction is 1, 2 or 3.
 - 9. The method of Claim 1 in which R' is C12-16 alkyl, x is 1, n and m are 2 and the degree of adduction is 1 or 2.
- 10. The method of Claim 1 in which R' is C4 or C8 alkyl, x is 1, and n and m are both 2.
 - 11. The method of Claim 1 in which the waterborne composition is a protective or decorative coating, an ink composition, an adhesive composition or an agricultural composition.
 - 12. The method of Claim 1 in which the industrial process is oil well pumping, petroleum gas scrubbing, cleansing or disinfecting, food processing, pulp or paper processing, fermentation, metal treatment, polymer or chemical synthesis, waste-water treatment, or textile dyeing or finishing

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13. In an aqueous composition containing a foam control agent which composition manifests greater foaming in the absence of the agent, the improvement which comprises the incorporation of a foam controlling amount of an alkyl glycidyl ethercapped polyamine of the formula as the foam control agent:

$$\begin{array}{c|c}
R \\
N = (CH_2)_n \\
R
\end{array}$$

$$\begin{array}{c|c}
N = (CH_2)_m \\
R
\end{array}$$

$$\begin{array}{c|c}
O - R' \\
O + R'
\end{array}$$

where n and m are 2 or 3,

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x is 1-6,

$$R = H \text{ or } O-R'$$
OH, and

R' is a C4 to C22 alkyl group,

- where R' is a C4 to C22 alkyl group, the alkyl glycidyl ether-capped polyamine generating an initial foam height at least 30% less than a 0.1 wt% aqueous solution of dioctyl sodium sulfosuccinate (DOSS) when added at 0.1 wt% to the DOSS solution.
- 14. The composition of Claim 13 which comprises in water an inorganic
 15 compound which is a mineral ore or a pigment or an organic compound which is a pigment, a polymerizable monomer, an oligomeric resin, a polymeric resin, a detergent, a herbicide, an insecticide, a fungicide, or a plant growth modifying agent.
 - 15. The composition of Claim 13 in which R' is C4-C14 alkyl.

16. The composition of Claim 13 in which x is 1 or 2.

- 17. The composition of Claim 13 in which n and m are 2.
- 18. The composition of Claim 13 in which the alkyl glycidyl ether-capped polyamine generates an initial foam height at least 50% less.

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- 19. The composition of Claim 13 in which R' is C4 alkyl, x is 1, n and m are 2 and the degree of adduction is 2, 3 or 4.
- 20. The composition of Claim 13 in which R' is C4 alkyl, x is 2, n and m are 2 and the degree of adduction is 2, 3 or 4.
 - 21. The composition of Claim 13 in which R' is C8 alkyl, x is 1, n and m are 2 and the degree of adduction is 1, 2 or 3.
- 15 22. The composition of Claim 13 in which R' is C12-16 alkyl, x is 1, n and m are 2 and the degree of adduction is 1 or 2.
 - 23. The composition of Claim 13 in which R' is C4 or C8 alkyl, x is 1, and n and m are both 2.

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24. The composition of Claim 13 which is an aqueous organic coating composition comprising in an aqueous medium 30 to 80 wt% of a coating composition which comprises the following components

0 to 50 wt% pigment dispersant, grind resin or mixtures thereof;

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0 to 80 wt% coloring pigment, extender pigment, anti-corrosive pigment, other pigment types or mixtures thereof;

	5 to 99.9 wt% water-borne, water-dispersible or water-soluble resin or mixtures thereof;
5	0 to 30 wt% slip additive, antimicrobial agent, processing aid or mixtures thereof;
	0 to 20 wt% coalescing or other solvent;
10	0.01 to 10 wt% surfactant, wetting agent, flow and leveling agents or mixtures thereof; and
	0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.
15	25. The composition of Claim 13 which is an aqueous ink composition
	comprising in an aqueous medium 20 to 60 wt% of an ink composition which comprises
	the following components
	1 to 50 wt% pigment;
20	0 to 50 wt% pigment dispersant, grind resin or mixtures thereof;
	0 to 50 wt% clay base in a resin solution vehicle;
25	5 to 99 wt% water-borne, water-dispersible or water-soluble resin or mixtures thereof;
	0 to 30 wt% coalescing or other solvent;
30	0.01 to 10 wt% processing aid, solubilizing agent or mixtures thereof;
	0.01 to 10 wt% surfactant, wetting agent or mixtures thereof; and
	0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.
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	26. The composition of Claim 13 which is an aqueous agricultural composition
	comprising in an aqueous medium 0.1 to 80 wt% of an agricultural composition which
	comprises the following components
40	0.1 to 50 wt% a herbicide, insecticide, plant growth modifying agent or mixtures thereof;
	0 to 5 wt% dye;

	0 to 20 wt% thickener, stabilizer, co-surfactant, gel inhibitor or mixtures thereof;
5	0 to 25 wt% antifreeze;
	0.01 to 50 wt% surfactant, wetting agent or mixtures thereof; and
	0.01 to 10 wt% alkyl glycidyl ether-capped polyamine.
10	27. The composition of Claim 13 which is an aqueous fountain solution
	composition comprising the following components
	0.05 to 10 wt% film formable, water soluble macromolecule;
15	1 to 25 wt% alcohol, glycol, or C2-C12 polyol;
	0.01 to 20 wt% water soluble organic acid, inorganic acid, or a salt thereof;
20	30 to 70 wt% water;
20	0.01 to 5 wt% wetting agent; and
	0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.
25	28. The composition of Claim 13 which is an aqueous adhesive composition
	comprising the following components
	50 to 99 wt% waterborne acrylic copolymer emulsion, SBR latex or natural rubber latex;
30	0 to 50 wt% tackifier dispersion;
	0 to 5 wt% rheology modifier;
35	0 to 10 wt% water;
	0.1 to 5 wt% wetting agent; and
	0.1 to 5 wt% alkyl glycidyl ether-capped polyamine.
40	29. The composition of Claim 13 which is an aqueous overprint varnish
	composition comprising the following components
	20 to 80 wt% waterborne or water dispersible resin;

0 to 20 wt% wax;

2 to 50 wt% water;

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0 to 20 wt% biocides, optical brightener, crosslinker, scuff or water resistant additives and mixtures thereof;

0 to 20 wt% co-solvent;

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0.01 to 5 wt% wetting agent; and

0.1 to 5 wt% alkyl glycidyl ether-capped polyamine.

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